

The Sociology of Science and Technology (SST) research group at the Department of Science, Technology and Society (STS) at Technical University of Munich (TUM) is inviting applications for a position:

Doctoral researcher (65%, 3 years, fixed term) on

Mapping the EU science-society landscape for the standardization of climate services

Job description:

- Perform the mapping of science-society interactions as part of the EU HORIZON project “Climateurope2: Supporting and standardising climate services in Europe and beyond”;
- Work towards joint publications in recognized international, peer-reviewed journals, including co-authored papers with other group members;
- Co-Teach courses, e.g. on Environmental STS, Technology and Society or other STS topics; help develop new courses on these topics (such as “Risks & Safety”, “Accounting and standardization”);
- Consider writing/contributing to synergistic grant applications to raise external funding;
- Active engagement with the community at STS Department, TUM, and in the international STS landscape.

Candidate profile:

- Completed Master’s degree in Science and Technology Studies (STS) or a related field,
- Sociology, Interpretative Policy Studies, Geography, or other relevant field;
- Basic knowledge of the topics, theories and methods of STS on science society interfaces and public engagement
- Previous experience with and/or knowledge of climate change modeling and policymaking are an advantage;
- Experiences in research management are an advantage;
- Excellent command of the English language;
- International experience is an advantage;
- Strong inclination to work in a team-oriented environment.

About the project:

Climateurope2 aims to develop future equitable and quality-assured climate services to all sectors of society by: developing standardisation procedures for climate services; supporting an equitable European climate services community; and enhancing the uptake of quality-assured climate services to support adaptation and mitigation to climate change and variability. The Climateurope2 project is the continuation and extension of a previous European research project, Climateurope (<https://www.climateurope.eu/>), involving a wide range of partners in academia, public policy, and the private sector across Europe. The project was launched in September 2022 and will end in 2026. The selected candidate will support a Work Package focusing on Policy Support for Climate Services, focusing on analyzing the policy contexts within which climate services are being developed in Europe. This research will focus on how “providers” and “users” of climate services interact in different sectors and levels of policy-making and how their interactions can be mapped in a reflexive way.

About us:

The SST research group seeks to establish a research program on science, technology and society in the interdisciplinary environment of the SOT and TUM. The overarching goal of our research group is to combine research on *science in society* with *real-world engagements* in advisory bodies and societal co-production in an interactive and reflexive way. The group researches and enables the emergence of new forums of collaboration between different societal actors from science, civil society, politics and business as well as new formats of knowledge production and governance of science (e.g. public engagement, responsible science, co-creation of knowledge, science-policy interface such as most prominently the IPBES Assessment of transformative change (<https://www.ipbes.net/transformative-change>). We also develop the analytical framework for theoretical and practical approaches for understanding these novel forms of knowledge production and assessing their scientific performance and societal impact, including their evaluation criteria. By creating a space for public engagement and critical reflection, our research aims to address – in theory and practice – to solving pertinent and urgent scientific and societal challenges arising e.g. from rapid global climate change and emerging technologies (such as Negative Emission Technologies, Neuro-Technologies and Social Media).

Among the questions that drive research in our group are: How do framing of risks, trust and underlying societal compacts differ across technological domains, regions, and cultures? What are long-term as well as short-term nature of risks and benefits (implications for vulnerability and resilience) (i.e., taken by whom, how, where, at what costs)? How do societal actors envision desirable and sustainable futures? How are science and technology assessed and governed in international settings? How can we govern research emerging research and technologies responsibly, sustainably, deliberatively, and inclusively?

The research group is contributing to the projects 'EU-Climateurope2: Supporting and standardising climate services in Europe and beyond', 2022-2026, and 'BioNET – Multi-level Assessment of Bio-based Negative Emission Technologies' as part of the BMBF funding measure *Methods of Carbon Dioxide Removal* (CDR) <https://www.ufz.de/index.php?en=49066>.

Some recent publications by the group pertinent to the current job openings include:

- **Beck, S.**, & Oomen, J. (2021). Imagining the corridor of climate mitigation–What is at stake in IPCC's politics of anticipation?. *Environmental Science & Policy*, 123, 169-178. <https://doi.org/10.1016/j.envsci.2021.05.011>
- Beck, S., Jasanoff, S., Stirling, A., & Polzin, C. (2021). The governance of sociotechnical transformations to sustainability. *Current Opinion in Environmental Sustainability*, 49, 143-152. <https://doi.org/10.1016/j.cosust.2021.04.010>
- **Beck, S.** & Forsyth, T. (2020): Who gets to imagine transformative change? Participation and representation in biodiversity assessments. *Environmental Conservation*, 1-4. <https://doi.org/10.1017/S0376892920000272>
- Carton, W., Asiyanbi, A., **Beck, S.**, Buck, H. & Lund, J. (2020). Negative Emission and the long history of carbon removal. *Wiley Interdisciplinary Reviews: Climate Change* 11(6), e671. <https://doi.org/10.1002/wcc.671>
- **Beck, S.** & Mahony, M. (2018). The IPCC and the new map of science and politics. *WIREs Climate Change* 9(5), e547. <https://doi.org/10.1002/wcc.547>
- Matzner, N., & Barben, D. (2020). Climate engineering as a communication challenge: contested notions of responsibility across expert arenas of science and policy. *Science Communication*, 42(1), 61-89.

About the STS Department:

The **Department of Science, Technology and Society (STS)** at the TUM School of Social Sciences and Technology is dedicated to understanding the larger social, political, ethical and legal dimensions of science and technology. Embedded in TUM's unique innovation ecosystem, we are committed to enabling a more responsible and sustainable engagement with science and innovation through social science research, teaching and public dialogue – often in collaboration with partners from technical fields. The TUM STS community strives to provide

new intellectual and practical resources for dealing with the challenges of highly technologized societies, and to train future leaders with a unique sensibility for the critical interface between science, technology and society. The STS Department was founded in 2021 and expands the institutional groundwork laid by Munich Center for Technology in Society (MCTS) since 2012 to put society at the heart of the TUM mission. As one of Europe's largest hubs for STS, we are a lively intellectual community of 70+ researchers from numerous disciplines and fields of specialization. As a department, we deliver 2 Master's programs and design STS content for the School's PhD program. We offer regular public lectures and symposia, weekly discussion groups, and visiting researcher programs. We maintain close collaborative ties to other parts of TUM as well as to leading STS centers in Germany and around the world.

Find out more about the TUM STS Department and SST Research Group online:

<https://www.mcts.tum.de/>

<https://www.mcts.tum.de/en/wissensoz/overview/>

Application

Please submit your application **as a single pdf document**, including the following parts (in this order):

- Your CV, including a list of publications and presentations (if applicable);
- A letter of motivation that describes your research profile and your qualification for/interest in the job profile (max. 2 pages);
- 1-2 writing samples (e.g. a chapter of your MA thesis, a publication, or a manuscript);
- The names and contact details of one reference;
- Relevant transcripts and certificates (e.g. a copy of your Master's degree).

All application materials should be sent to Silke Beck, mentioning "Climate-services" in the subject line, respectively.

The deadline for application is **October 20, 2022**. Specific clarification questions about this position or the WST research profile should be addressed to Prof. Silke Beck (silke.beck@tum.de).